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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/662,519	09/14/2000	Stephen Richard Lewallen	STL000005US1	2052

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EXAMINER

HOANG, PHUONG N

ART UNIT PAPER NUMBER

2126

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/662,519

Applicant(s)

LEWALLEN, STEPHEN RICHARD

Examiner

Phuong N. Hoang

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 - 42 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 - 42 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. Claims 1 – 42 are pending for examination.
2. The cross reference related to the application cited in the specification must be updated (i.e. update the relevant status, with PTO serial numbers or patent numbers where appropriate, on page 1, lines 11 – 14; the entire specification should be so revised).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1 – 2, 4 – 16, 18 – 30, and 32 – 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Galea, US patent no. 6,404,445 in view of Bourret**  
**""FAQ: What software do I need to run XML-DBMS" pages 1 - 2.**

5. Galea was cited in the last office action.

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6. **As to claim 1**, Galea teaches a method for generating user interface output on an output device attached to a remote computer, wherein the remote computer communicates over a network to at least one server, comprising the steps of:

receiving an object including user interface components and data from one server (service configuration domain, together with user interface tags ....downloaded to clients, col. 5 lines 53 - 59);

generating user interface output from the user interface components and data in the object (the user interface is dynamically generated based upon compiled domain tags, col. 5 lines 55 - 59);

converting interface in the first format to a user interface API in a second format (the user interface is dynamically generated based upon compiled domain tags, col. 5 lines 55 - 59 and col. 11 lines 15 - 18); and

executing the user interface API in the second format to manipulate the object and generate further user interface output from the components and data in the object (once the compressed file is downloaded ..... within client 106, col. 7 lines 17 - 22 and col. 10 lines 40 - 44) wherein the user interface output is controlled by the at least one remote server through the interface sent by the at least one server over the network (user interface can be manipulated at client after the compressed file comprising the user interface tags is downloaded, col. 10 lines 25 - 43 and col. 11 lines 20 - 32).

Gelea teaches the conversion would involve the standard interface (DOM, col. 9 lines 60 - 65).

Galea does not explicitly teach receiving interfaces in a first format from at least one server over the network.

Bourret teaches downloading the standard interface (download DOM from Docuverse, section XML parser and DOM).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Galea and Bourret's because 's xml parser including DOM implementation is well-known for providing a standard API to dynamically manipulate the user interfaces, and therefore, minimizing the communication back and forth between the servers and clients for transmitting data.

7. **As to claim 2**, Galea teaches the step of wherein the data included in the object includes at least one of text, images, and graphics (sale items, col. 5 lines 50 -55).

8. **As to claim 4**, Galea teaches the step of wherein the user interface output generates a web browser interface (browser, col. 7 lines 56 - 60).

9. **As to claim 5**, Bourret teaches the step of wherein the object comprises a document object model (DOM, page 2) object and the standard APIs in the first format comprise W3C APIs (DOM is the W3C APIs).

10. **As to claim 6**, this is the method claim of claim 1. See rejection for claim 1 above.

11. **As to claim 7**, Galea teaches the steps of receiving, at the server, input from one of the remote computers to manipulate the object to modify the user interface output (server received input or requests when user selects a new service or submit to purchase a product, col. 7 lines 20 - 22); generating, with the server, standard APIs to implement the manipulations to the object indicated in the received input; and transmitting the generated standard APIs to the remote computers to implement the manipulations of the object on the remote computers .

12. **As to claim 8**, Galea teaches the steps of wherein the object includes images of a product, wherein the received input at the server is to modify the presentation of the images of the product, and wherein the generated and transmitted standard APIs modify the presentation of the images of the product displayed in the generated user interface output at the remote computer (images to be displayed and updated, col. 5 lines 40 - 45 and col. 8 lines 20 - 23).

13. **As to claim 9**, Galea modified by Bourret teaches the steps of transmitting the object to additional remote computers (Galea; service configuration domain, together with user interface tags ....downloaded to clients 106 and 108, col. 5 lines 53 - 59), transmitting the standard APIs in the first format to the additional remote computers (Bourret; DOM, p. 1) that received the object to manipulate the objects on all the remote computers and control the generation of user interface output on the remote computers.

14. **As to claim 10**, see rejection for claim 7 above.

15. **As to claim 11**, Galea and Bourret do not teach the step of the object including a lesson data.

It would have been obvious to one of ordinary skill in the art to modify data to be of an interactive lesson because it can let user learn more about on-line product.

16. **As to claims 12**, see rejection for claim 2 - above.

17. **As to claims 13 - 14**, see rejection for claims 3 - 4 above respectively.

18. **As to claim 15**, it is the system claim of claim 11. See rejection for claim 1 above. Further, Galea teaches a program logic (Java applet, col. 6 lines 60 - 65).

19. **As to claim 15**, it is the system claim of claim 11. See rejection for claim 1 above. Further, Galea teaches a program logic (Java applet, col. 6 lines 60 - 65).

20. **As to claim 16**, see rejection for claim 2 above.

21. **As to claims 18 - 19**, see rejection for claims 4 - 5 above.

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22. **As to claim 20**, it is the system claim of claim 6. See rejection for claim 6 above.
23. **As to claims 21 - 28**, see rejection for claims 7 - 14 above.
24. **As to claim 29**, it is the program claim of claim 1. See rejection for claim 1 above.
25. **As to claim 30**, see rejection for claim 2 above.
26. **As to claims 32 - 33**, see rejection for claims 4 - 5 above.
27. **As to claim 34**, this is the program claim of claim 6. See rejection for claim 6.
28. **As to claim 35**, see rejection for claim 21 above.
29. **As to claims 36 - 42**, see rejection for claims 22 - 28 above.
30. **Claims 3, 17, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Galea, US patent no. 6,404,445 in view of Bourret ""FAQ: What software do I need to run XML-DBMS" pages 1 – 2, and further in view of Broulik, US patent no. 3,223,881.**



31. Broulik was cited in the last office action.

32. **As to claims 3, 17, and 31**, Galea teaches the step of receiving user input the remote computer; generating user interface APIs in the second format to implement the user input; and executing the generated user interface APIs to manipulate the object and generate further user interface output from the components and data in the object (col. 7 lines 18 - 22).

However, Galea and Bourret do not teach the step of the user input is the input commands.

Broulik teaches the step of the user input is the input commands (UI commands, col. 1 lines 45 - 50).

It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Galea, Bourret, and Broulik's because Broulik's commands would provide more user-friendly interactive way of entering input.

### ***Response to Arguments***

33. Applicant's arguments, filed on 8/03/04, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

### ***Conclusion***

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33. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jennings, US patent no. 6,717,593, demonstrating a method of downloading a plug-in that comprises a standard interface for interaction between client and server.

Park, "Existing API for DOM", demonstrating downloading standard interface.

Utriainen, "XML parsers and XSL Processors", demonstrating DOM and SAX parsers.

VistaEdge, "Using SAX parser", demonstrating SAX parser, pages 1 – 4.

34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong N. Hoang whose telephone number is (571)272-3763. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571)272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ph

December 13, 2004

  
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